# SEMESTER EXAMINATION,APRIL-MAY,2025

**Course Name: - B.tech(CSE)** **Semester:- II**

**Paper Name: -Python Programming** **PaperCode:-NES-203**

**Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer.** **Max Marks-70**

**Additional 30 Minutes for Mid-Test.** अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark**. **All questions are compulsory**.
- Section B- Answer any **5 out of 7** given questions in maximum one hundred fifty (150) words. Each question carries **7 marks**.
- SectionC- Answer any **2 out of 3** given questions in maximum three hundred (300) words. Each question carries **10 marks**.
- Section D- Each question carries **02 mark**. All questions are compulsory.

## Section – A (खण्ड–अ)

## Objective Questions (वस्तुनिष्ठप्रश्न)

**1. Answer allthe following questions.** **5x3 =15**

निम्नलिखितसभीप्रश्नअनिवार्यहैं।

i) Write the output of left shift operator of **a=-10**

**print("a<<2=",a<<2)**

a) 20
b) 10
c) -20
d) -40

ii) Write the output of the following code **--str="Python Programming"**

**print(str[2:3:-1])**

a) empty
b) y
c) gni
d) None of the above

iii) What is the correct way to write for reversing the string in Python?

a) str[: :-1]
b) str[-1]
c) str[:-1]
d) none of the above

iv) Operators with the same precedence are evaluated in which manner?

a) Left to right
b) Right to left
c) Can't say
d) None of the above

v) What is the output of this expression:3*1**3?

a. 27
b. 9
c. 3
d. 1

## Section – B (खण्ड–ब)
## Short Answer Questions (लघुउत्तरीय प्रश्न)

**2. Answer any five of the following questions** 5x7=35

I. Differentiate between list, tuple and dictionary data type of python and state example for this?
(a) Define the set, frozenset and dictionary data type in python with example.

II. What is the difference between while and for loop? Write a program to print only even no between 1 to n using while loop .

III. Write a program to check given no. is palindrome no.or not. and write a program to print the sum of cube of a digits.

IV. Define Arguments and its types of arguments with the help of examples.

V. Define Armstrong no. and write a program to check the given no. is Armstrong no. or not.

VI. Define Bitwise operators and membership operator in detail with the help of example.

VII. Define Exceptional handling and its components in detail with the help of example.

## Section -C
## Descriptive Questions(विवरणात्मकप्रश्न)

**3. Answer any two of the following question** 2x10=20

*i)* Define class, objects, self parameter and __init__function and also write a program to print the data related to faculty using class and objects concepts.

*ii)* Define Package and module in detail. Define OS module with its each method and also explain sys module with its methods in detail.

*iii)* Write a program to check given no. is prime no.or not and write a program to find the factorial of given no.

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**SEMESTER END EXAMINATION, APRIL-MAY, 2025**
**Mid-Test**

**Course Name:- B.tech(CSE)** **Semester:- II**
**Paper Name:- Python Programming** **Paper Code:- NES-203**
Time - 30 minutes. Max Marks-20

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**4. Answer all the following questions.** 10x2 =20
निम्नलिखित सभी प्रश्न अनिवार्य हैं

**(i)** Write the output of the following code --str="String Slicing in Python"
**print(str[-2:-4:-2])**
a. o
b. oh
c. oht
d. None of these

**(ii)** Write the output of the following code --str="String Slicing in Python"
**print(str[-17:-1: 1])**
a. slicing in python
b. ython
c. Slicing in Pytho
d. None of these

**(iii)** What is the purpose of the lambda keyword in Python?
a. to define anonymous functions
b. to define a variable
c. to import modules
d. to handle exceptions

**(iv)** What is the purpose of the **kwargs parameter in a python function definition?
a. to accept a variable number of positional arguments
b. to accept keyword arguments as a dictionary
c. to raise an exception
d.None of these

**(v)** Which datatype is immutable in Python?
a. List
b. Frozen Set
c. Set
d. Dictionary

**(vi)** Python is ------language?
a. interpreted
b. compiler
c. both
d. none of the above

**(vii)** Study the following program:
X=[8,9,7,5,2,1]
print(x[9])
a. 2
b. 1
c. Index error
d.None of these

**(viii)** What is the purpose of the return statement in a function?
a. to stop the execution of the function
b. to print the value of console
c. to return a value to the caller
d. to define a recursive function

**(ix)** The function, which is defined under a class, is called
a. class
b. method
c. module
d. function

**(x)** What will be the output of the following Python code?

```
def putdata():
  print('python programming')
putdata()
putdata()
```

a. Python programming Python Programming
b. Python programming
c. both
d. none of the above

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